

FIG. 1

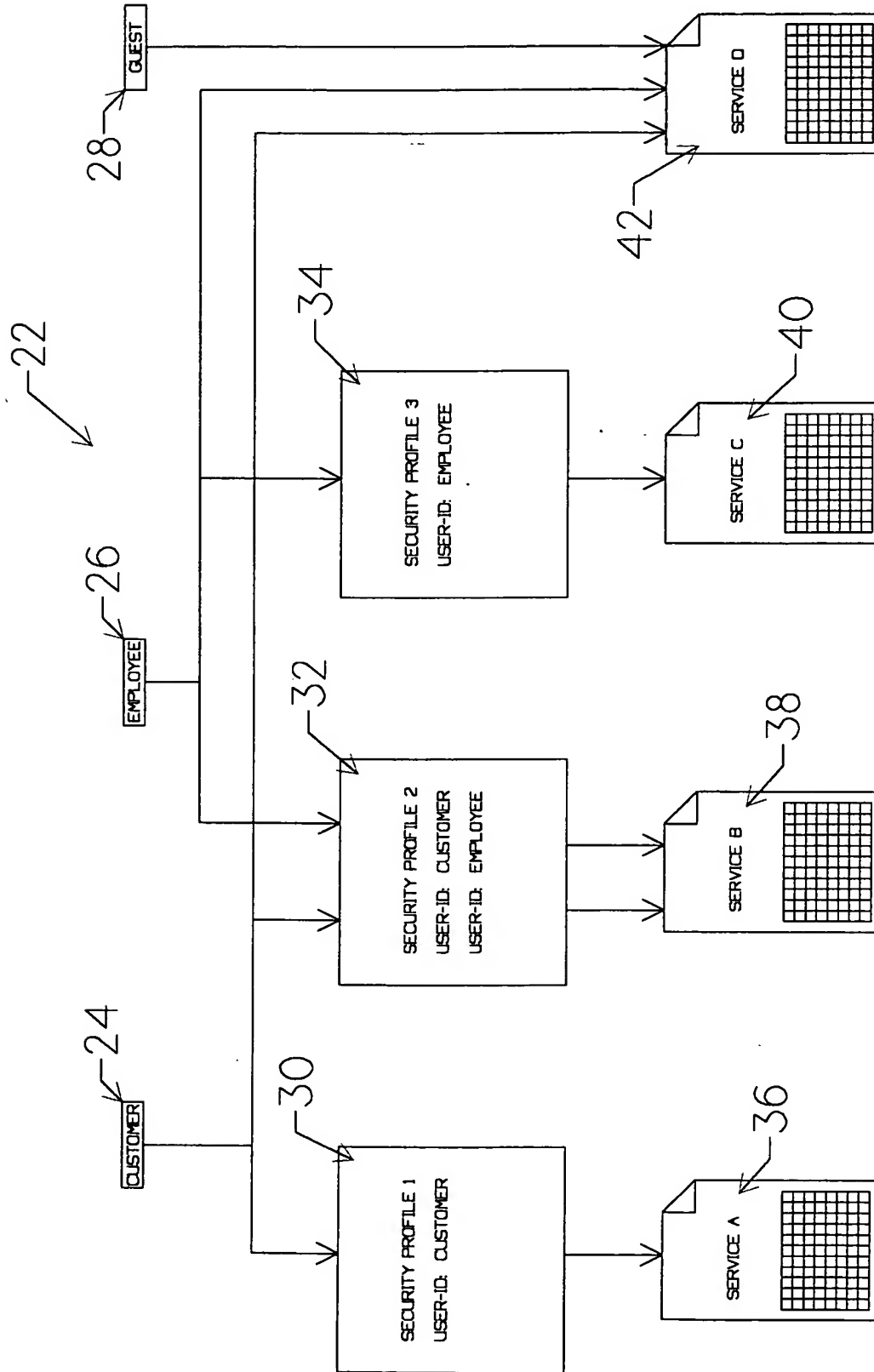


FIG. 2

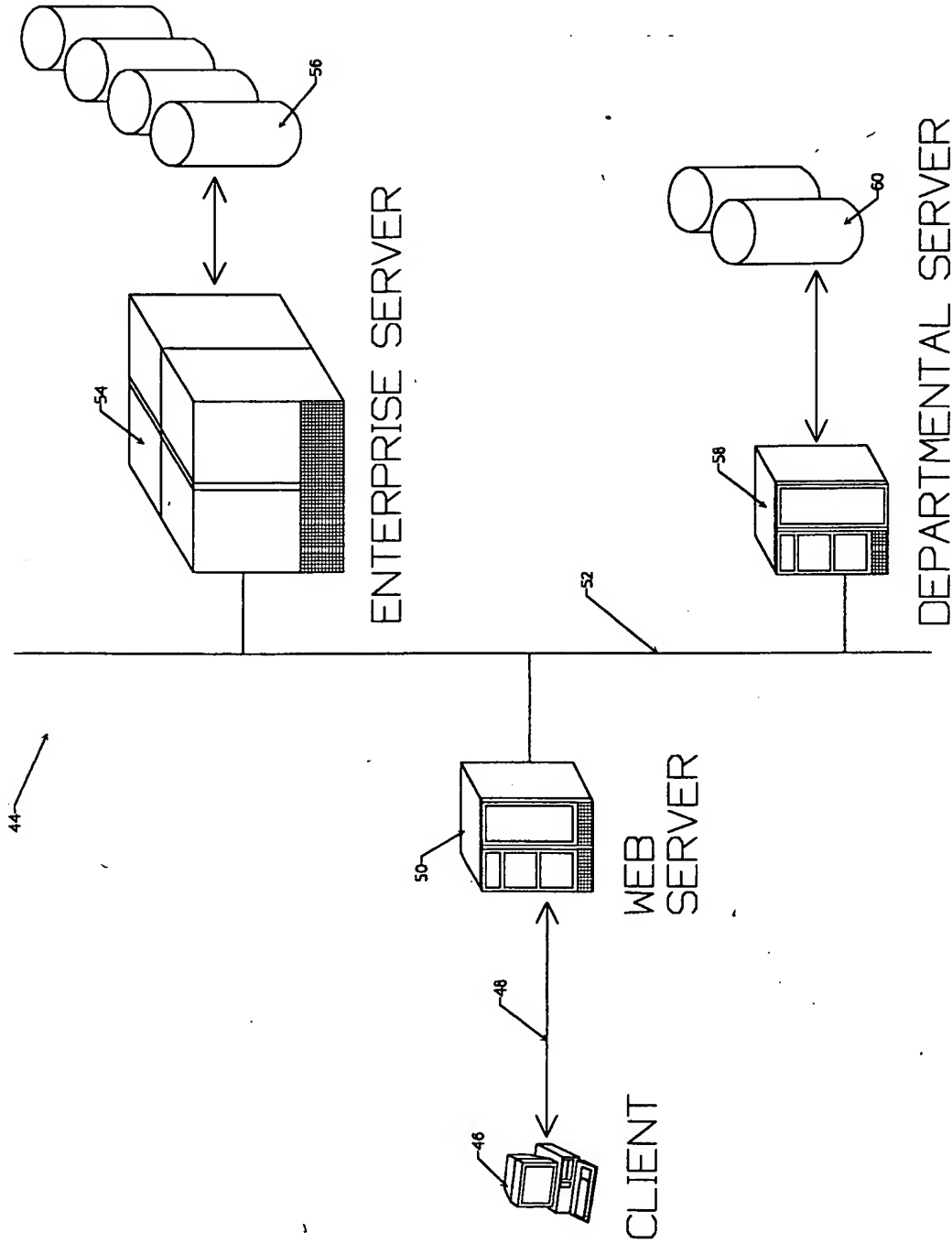


FIG. 3

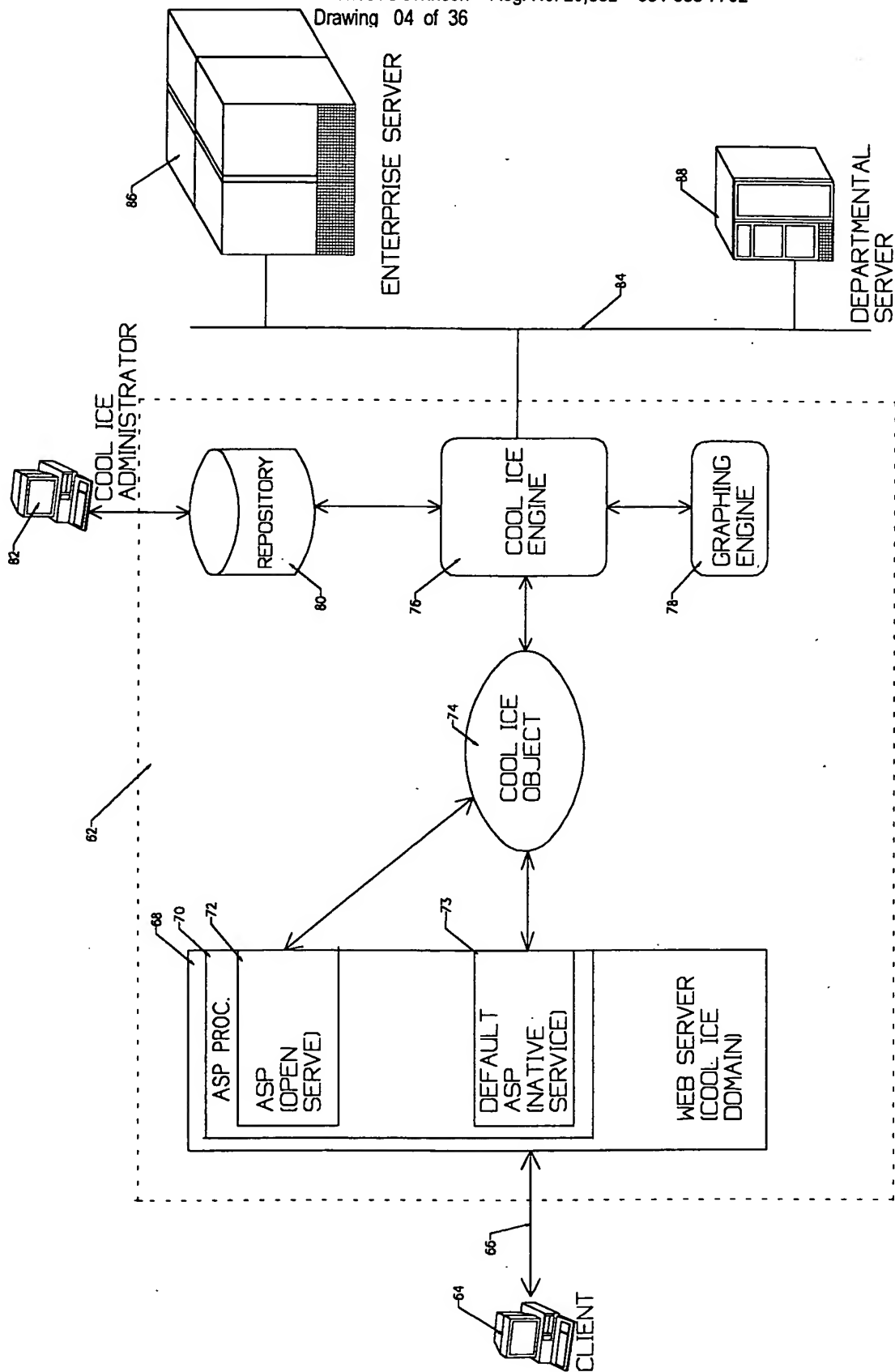


FIG. 4

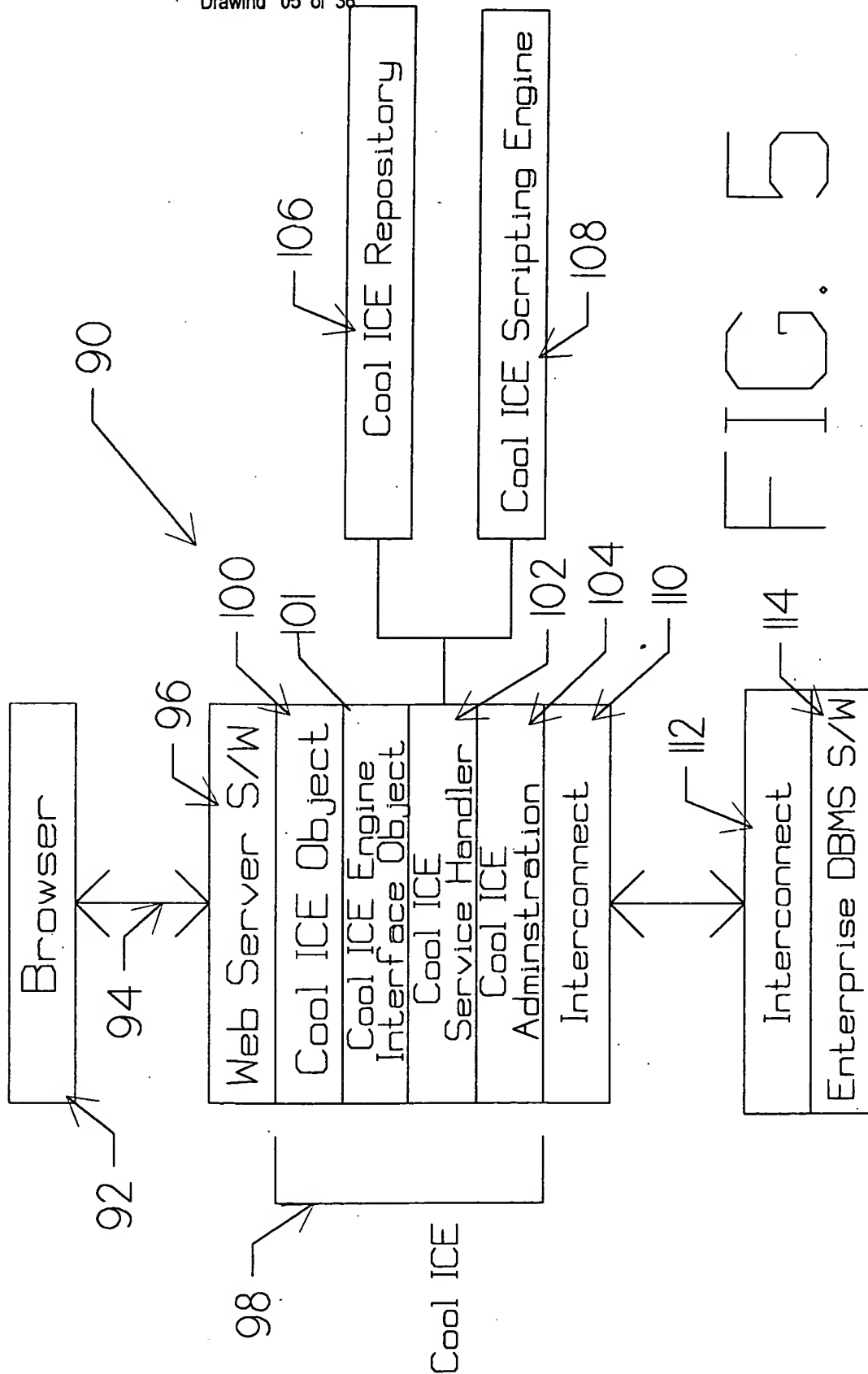


FIG. 5

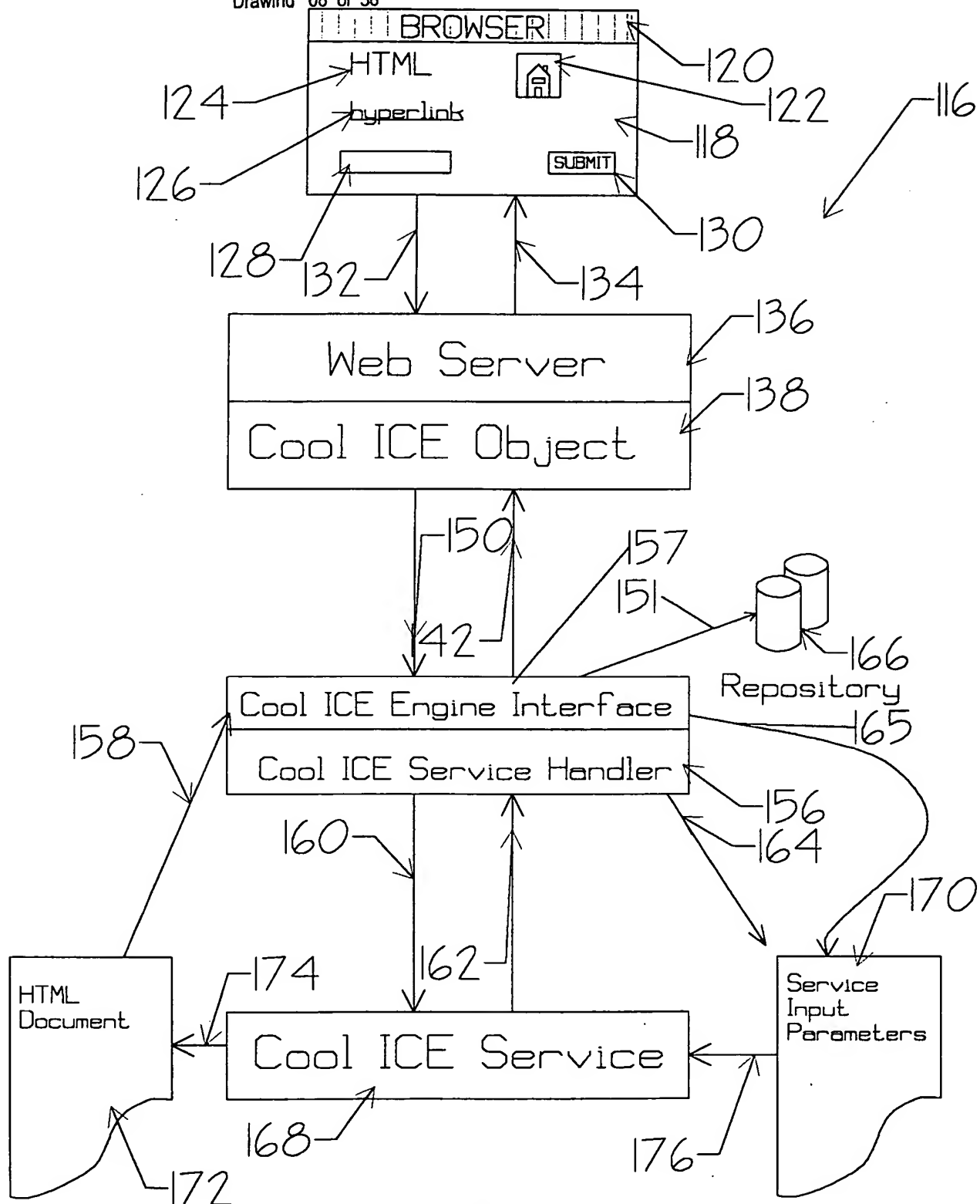


FIG. 6

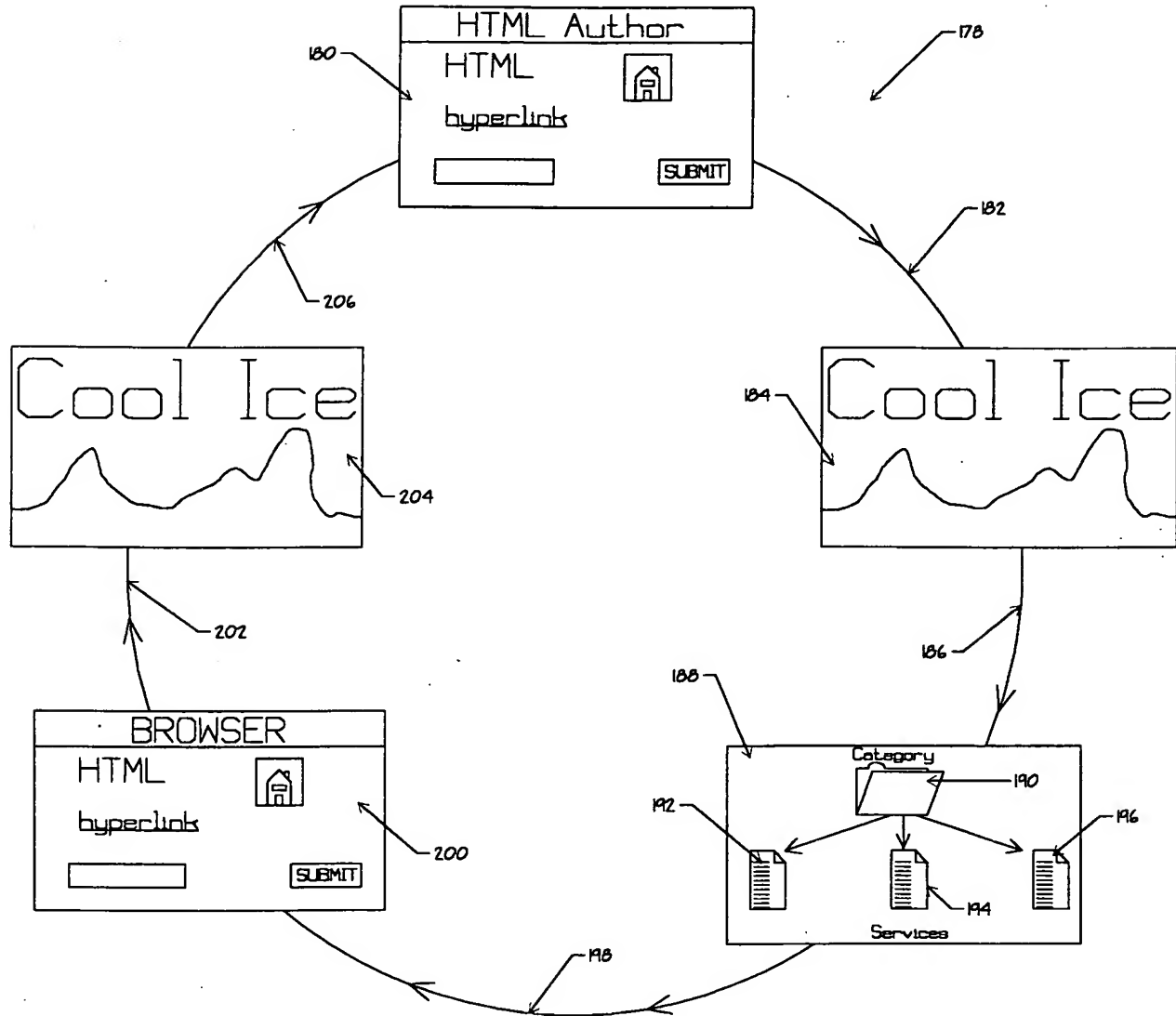


FIG. 7

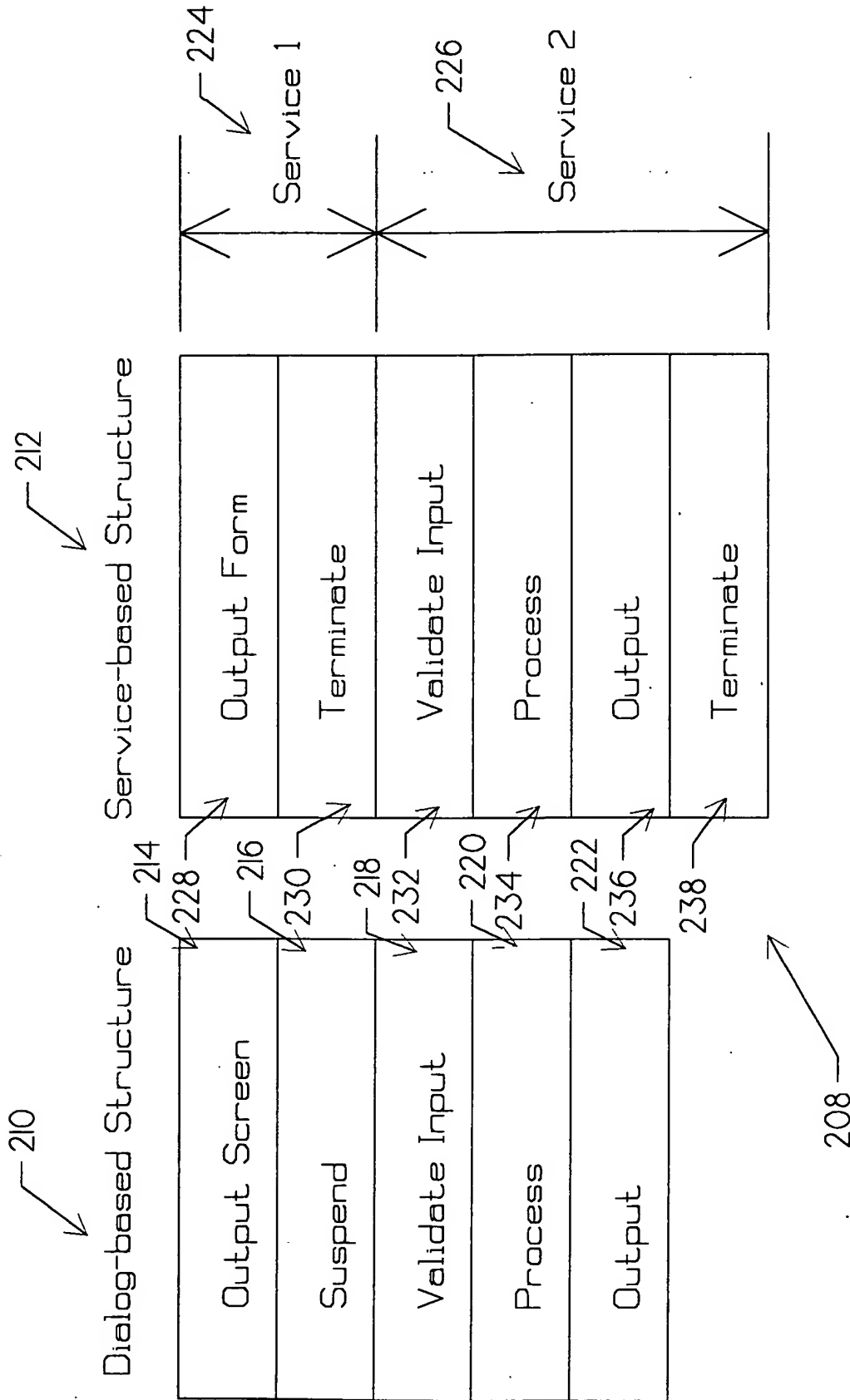


FIG. 8

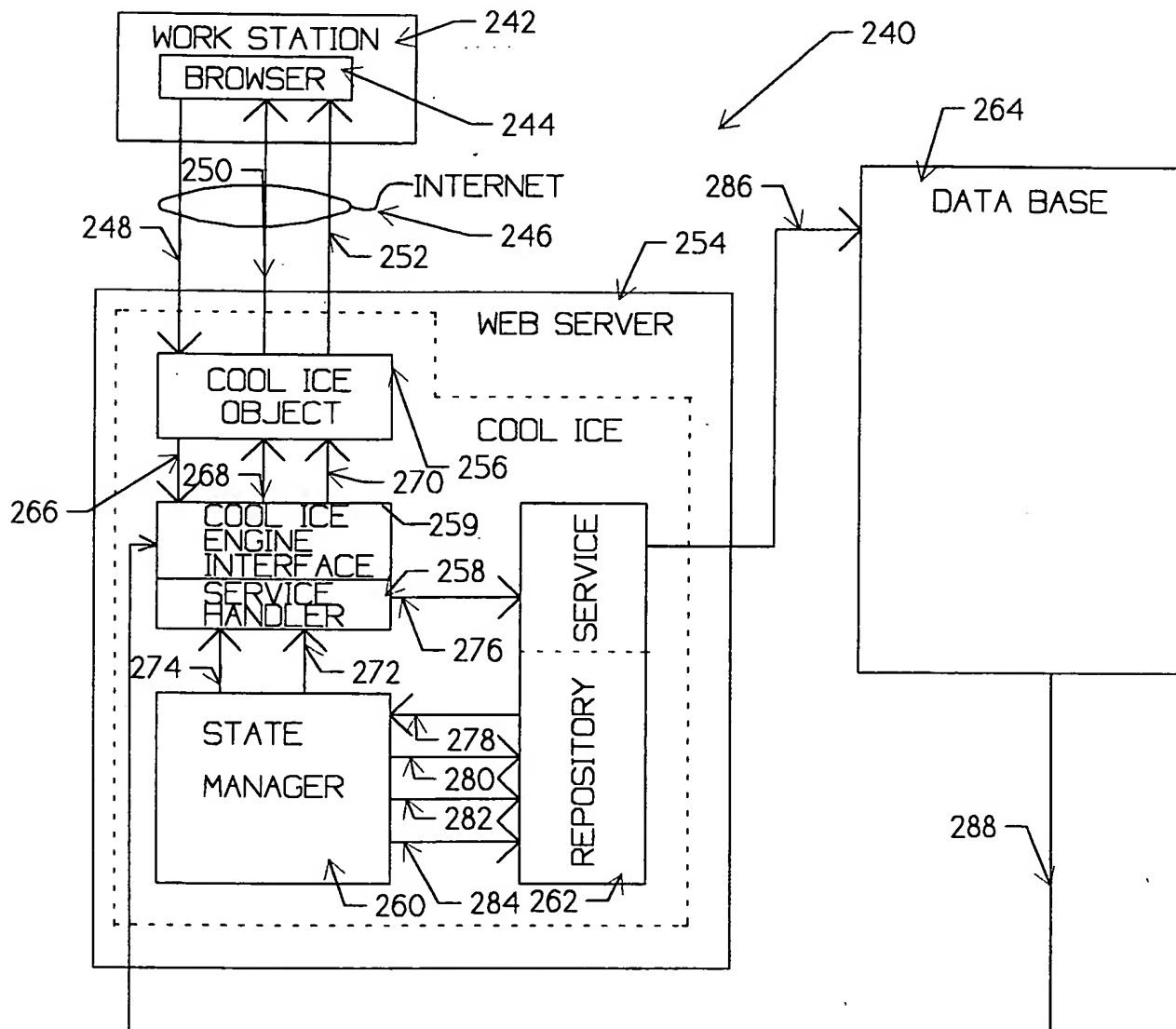


FIG. 9

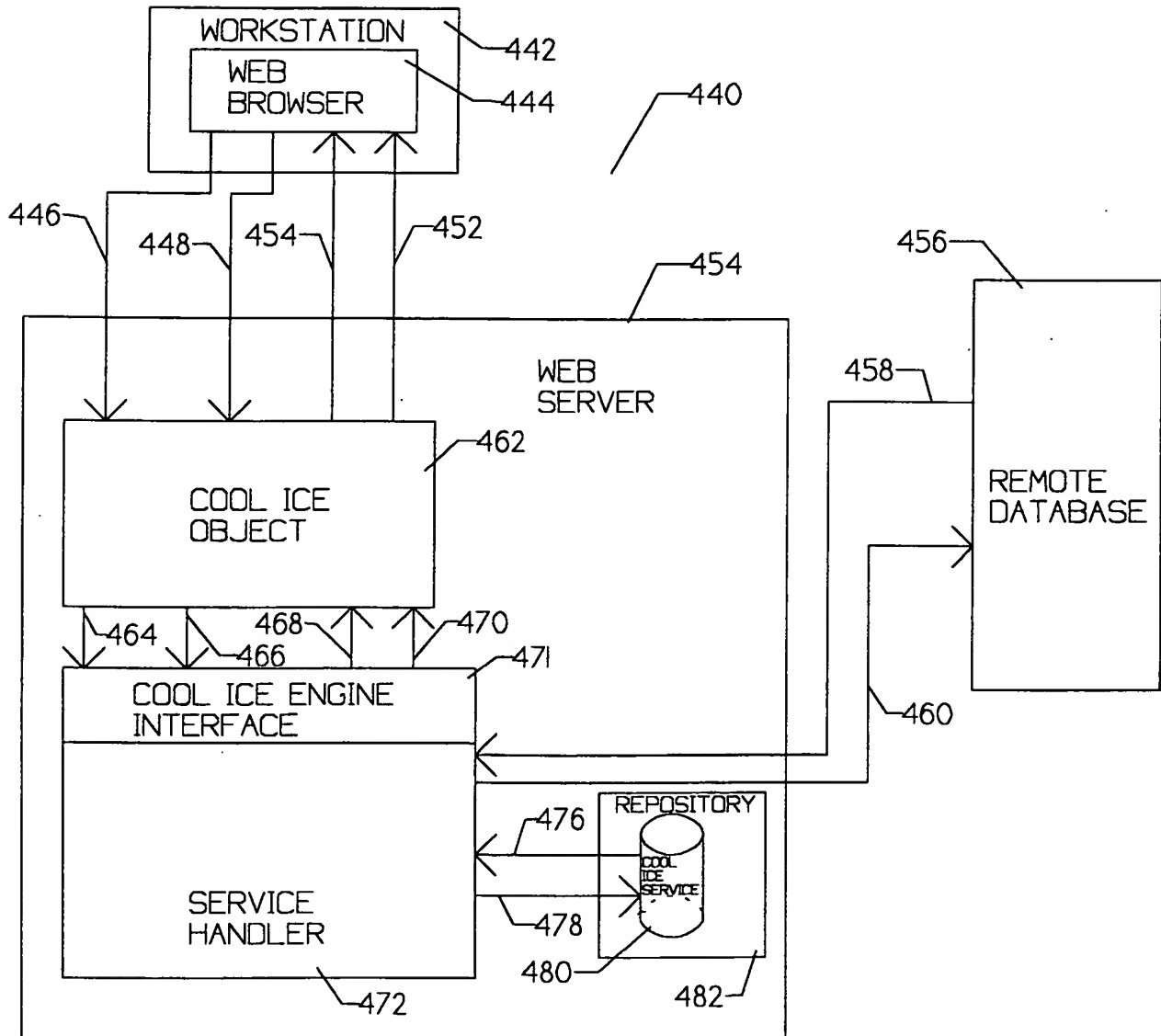
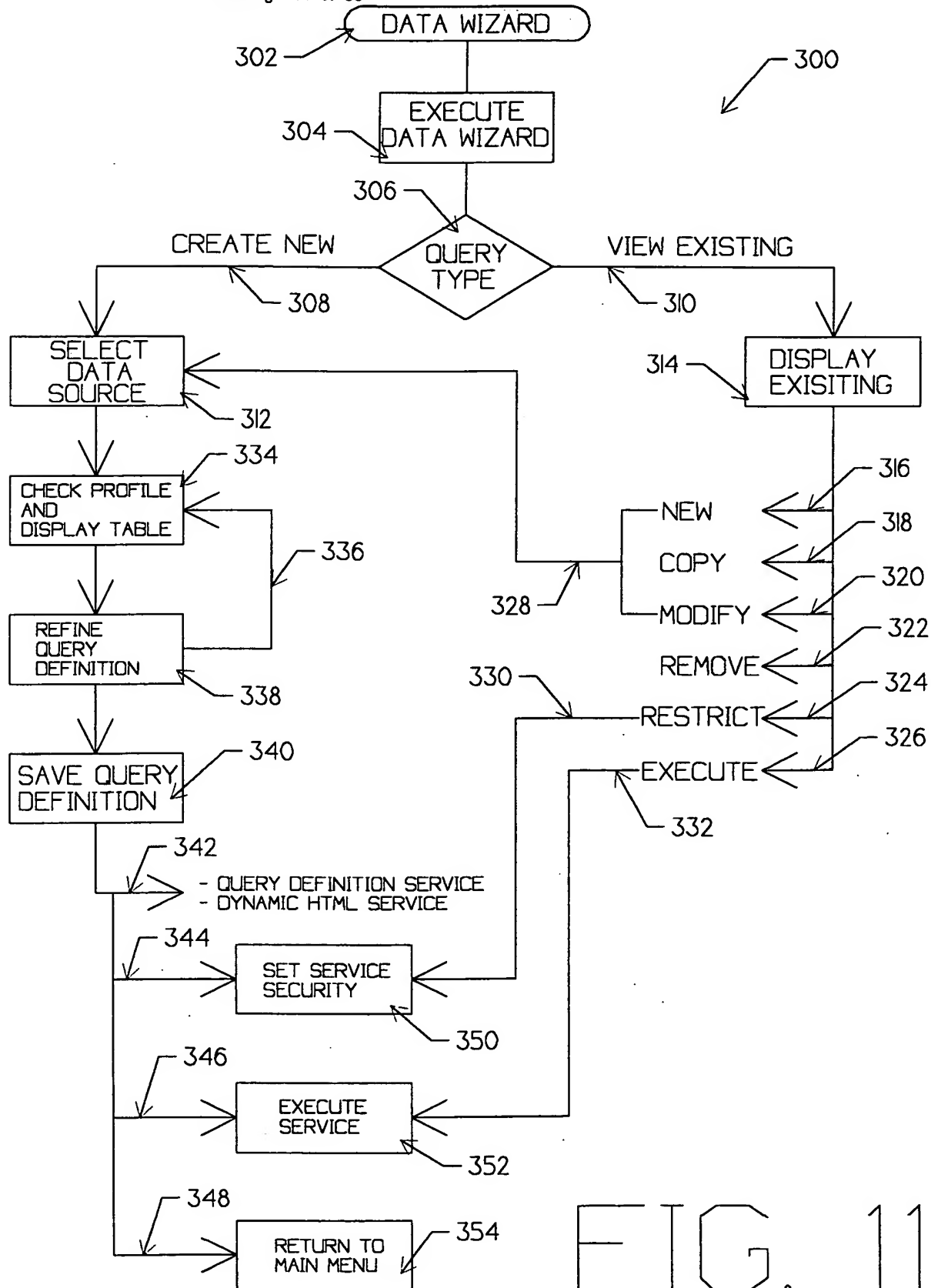


FIG. 10



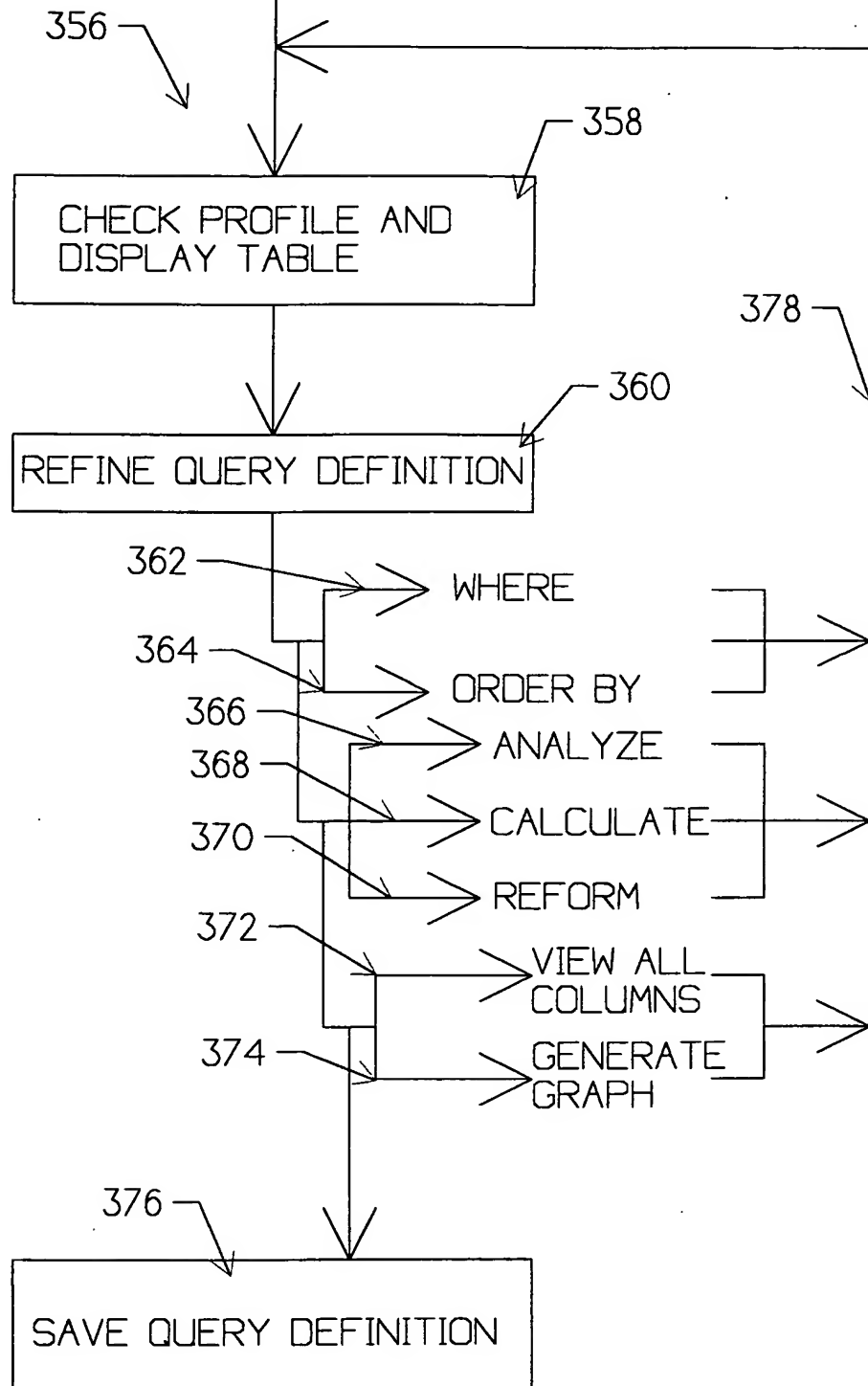
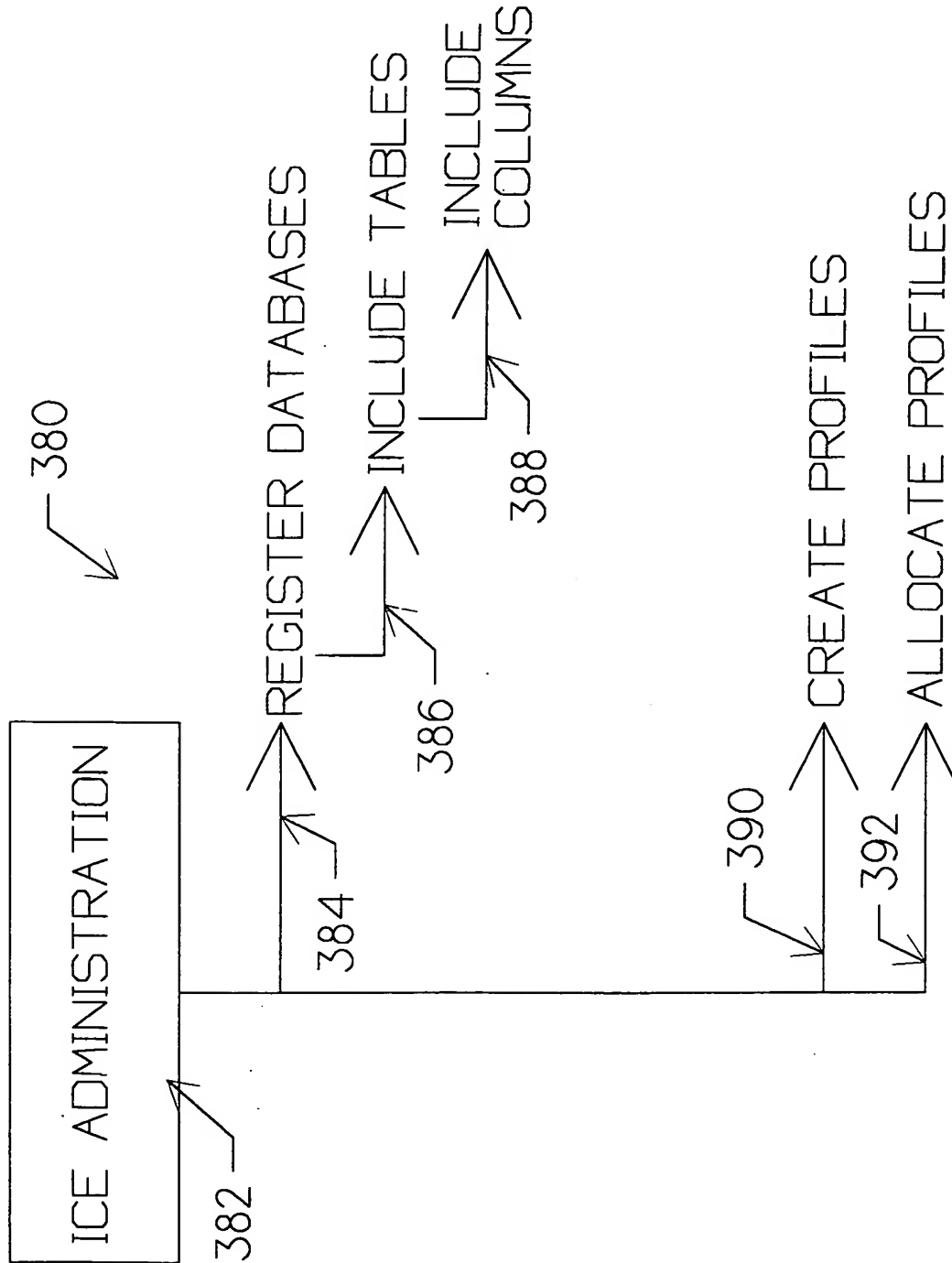


FIG. 12

FIG. 13



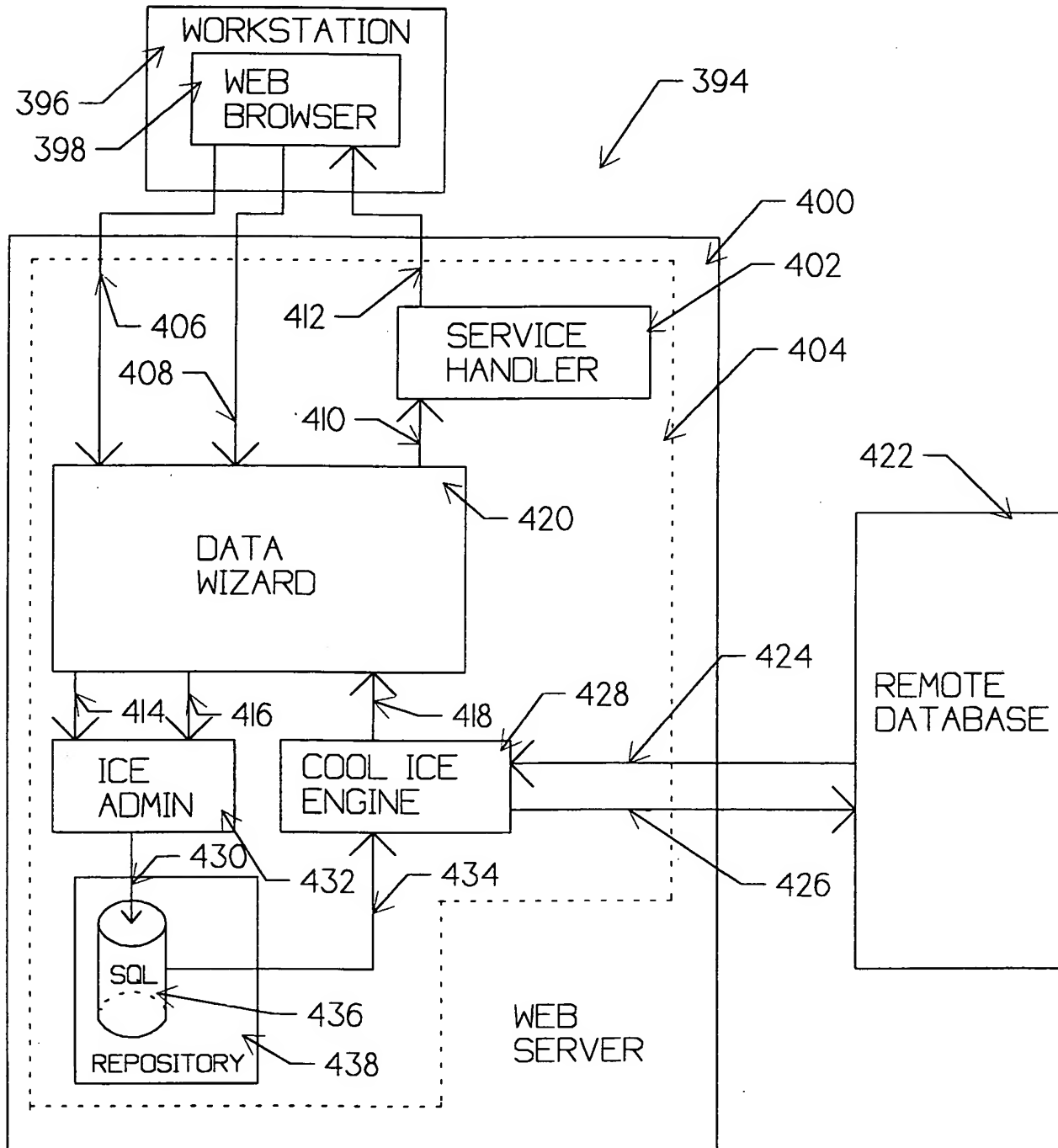


FIG. 14

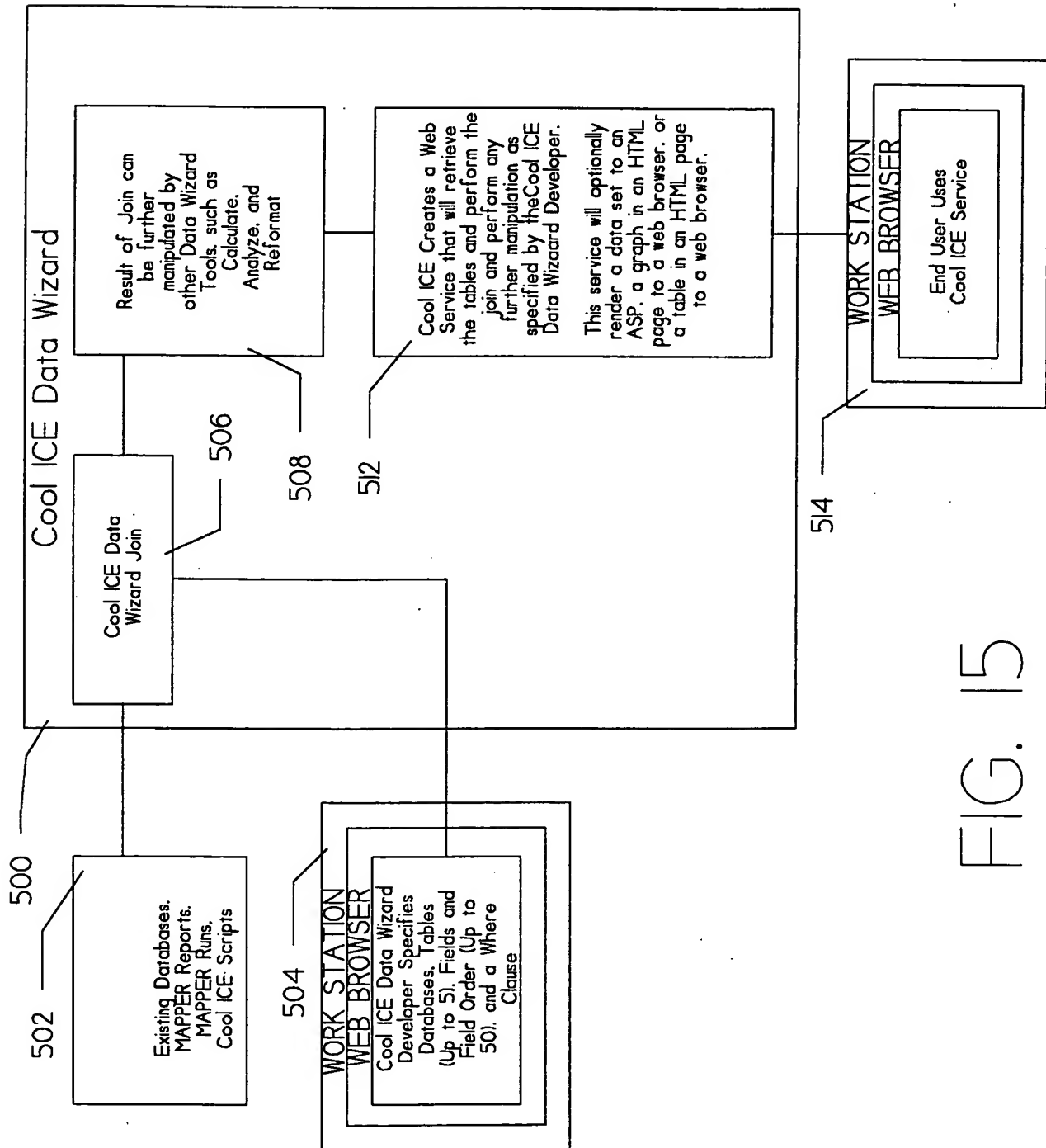
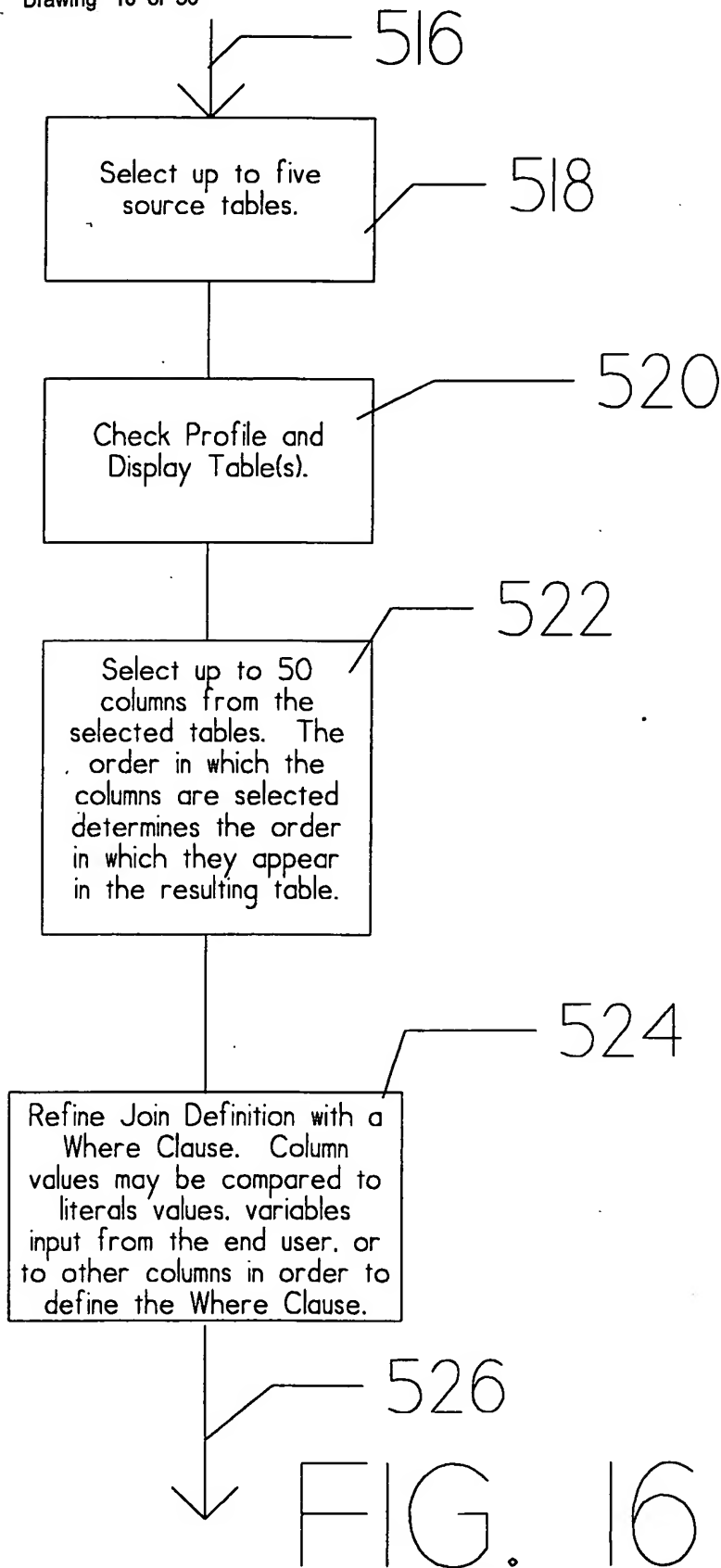


FIG. 15



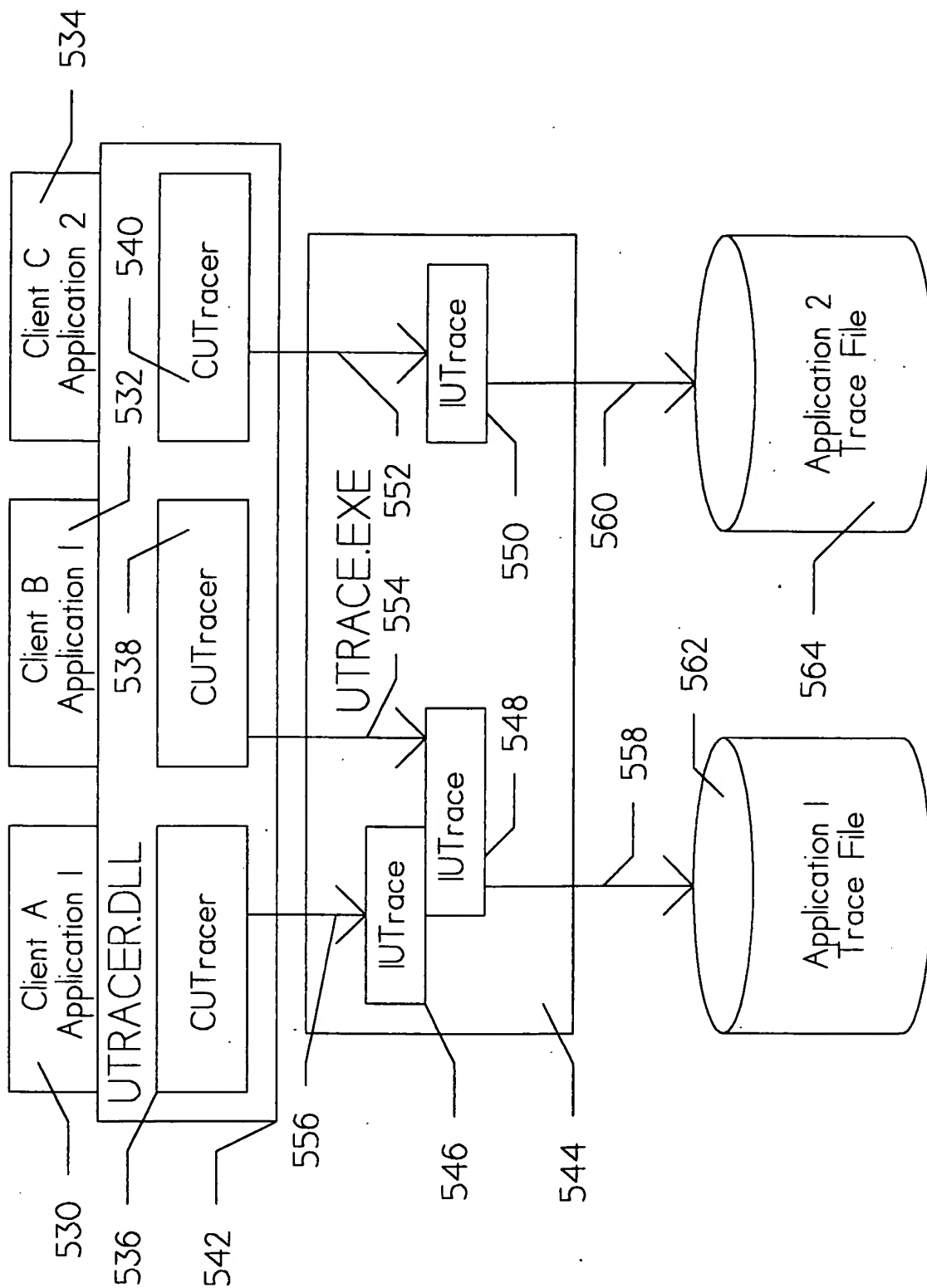


FIG. 17

HKLM\SOFTWARE\UNISYS\UTRACE

APPNAME -- Subkey matching the name of the application

565

ENABLETRACE	-- DWORD value indicating a Boolean (1=trace, 0=no trace).
MAXENTRIES	-- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.
FORMATFLAGS	-- DWORD value indicating message formatting flags.
POLICYFLAGS	-- DWORD value indicating trace policy flags set for the application.
TRACELEVEL	-- DWORD value indicating a trace level. 0 = no trace.
TRACEPATH	-- String value indicating the directory path for the trace files.
REGTRACE	-- A string value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace.
COMPONENT	-- A subkey for a specific component of the application.
POLICYFLAGS	-- Value indicating component level trace policy flags
TRACELEVEL	-- DWORD Value indicating a trace level. 0 = no trace.
VERSIONTRACE	-- String value specifying executable component name for version information tracing.

FIG. 18

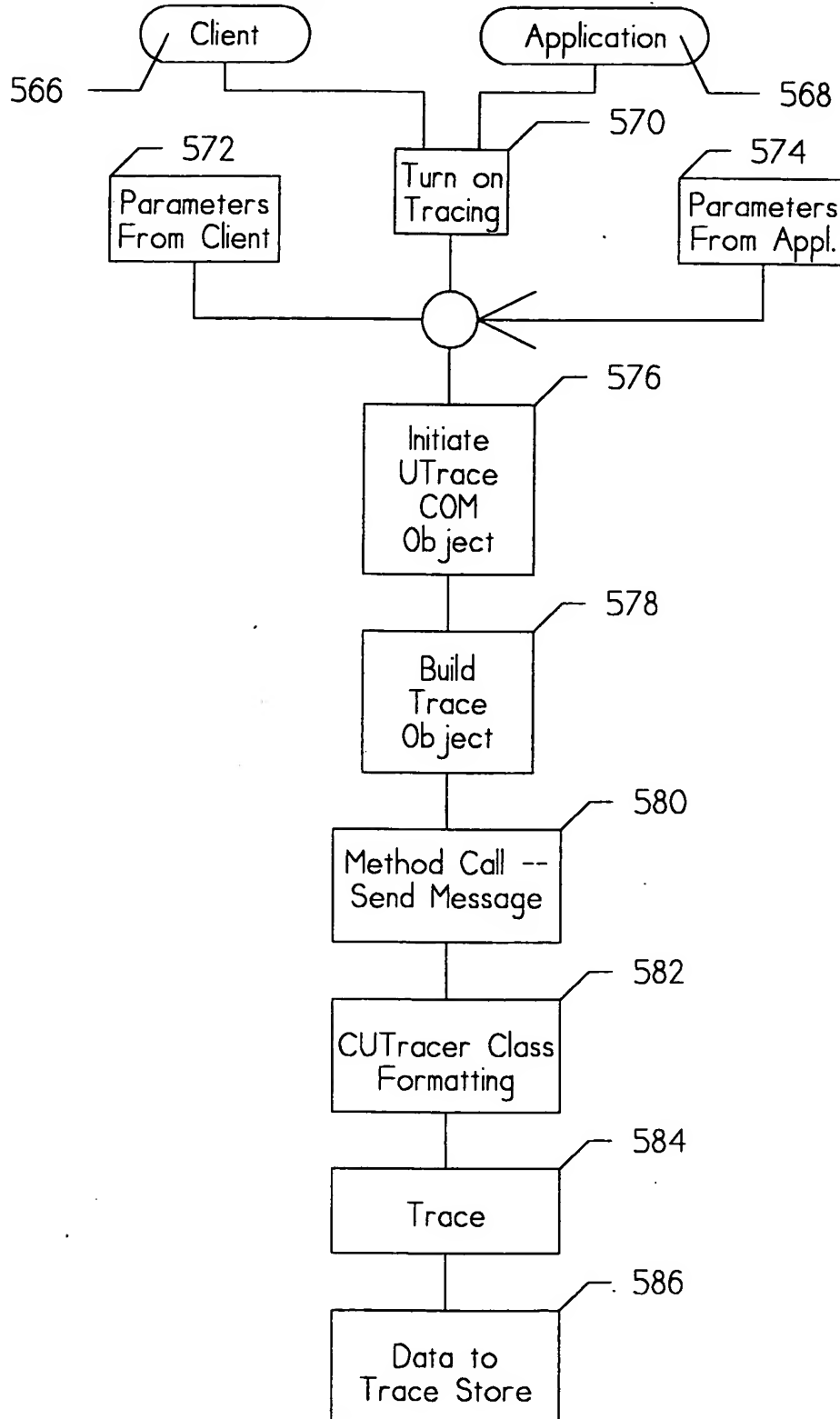


FIG. 19

```
#define CL_TRACE_VERSION      0x1  
#define CL_TRACE_ERROR       0x2  
#define CL_TRACE_INTERFACE    0x4  
#define CL_TRACE_FLOW        0x8  
#define CL_TRACE_DETAIL      0x10
```

FIG. 20A

```
if (m_trace.Active(C)_TRACE_DETAIL))  
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

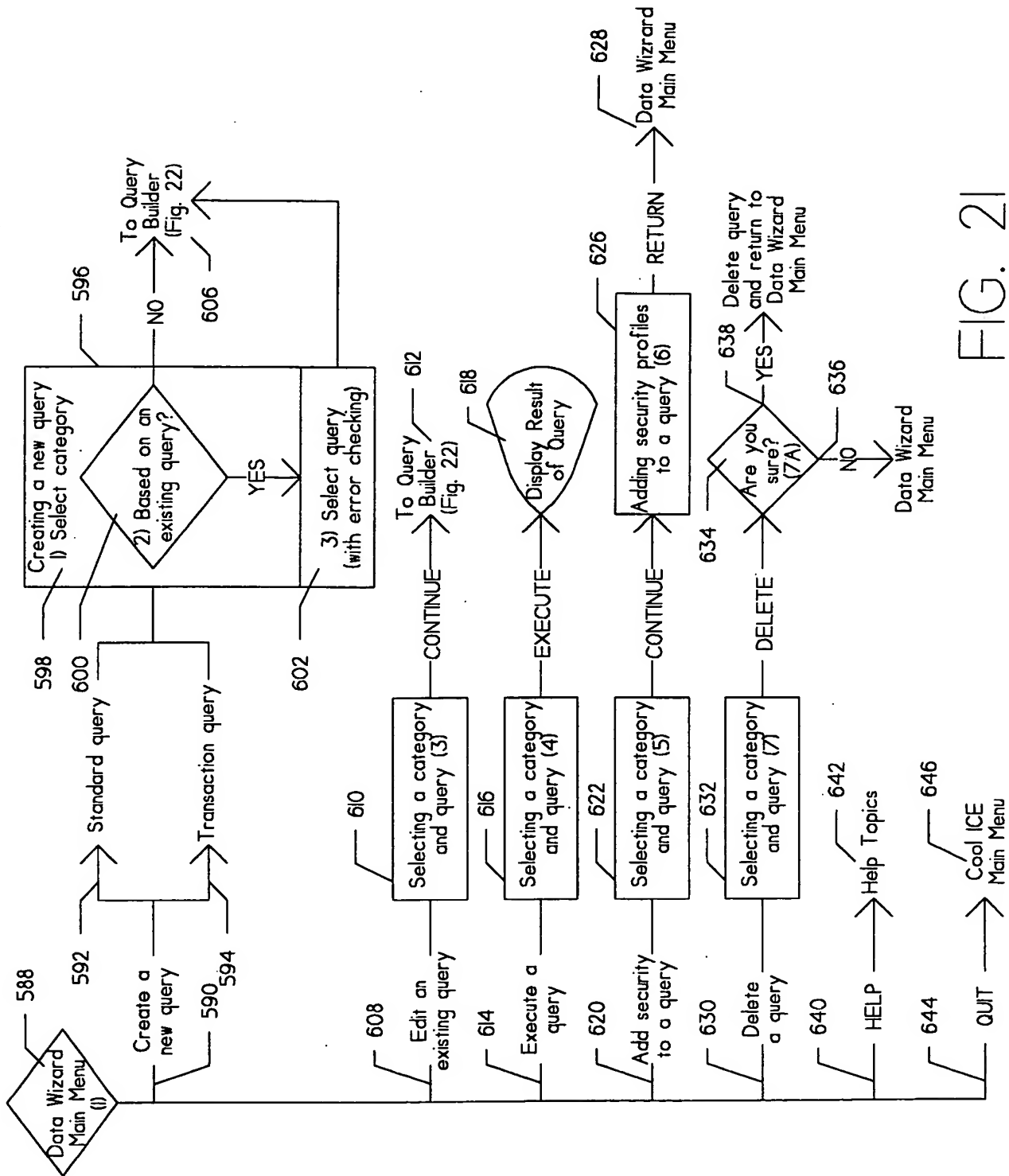


FIG. 21

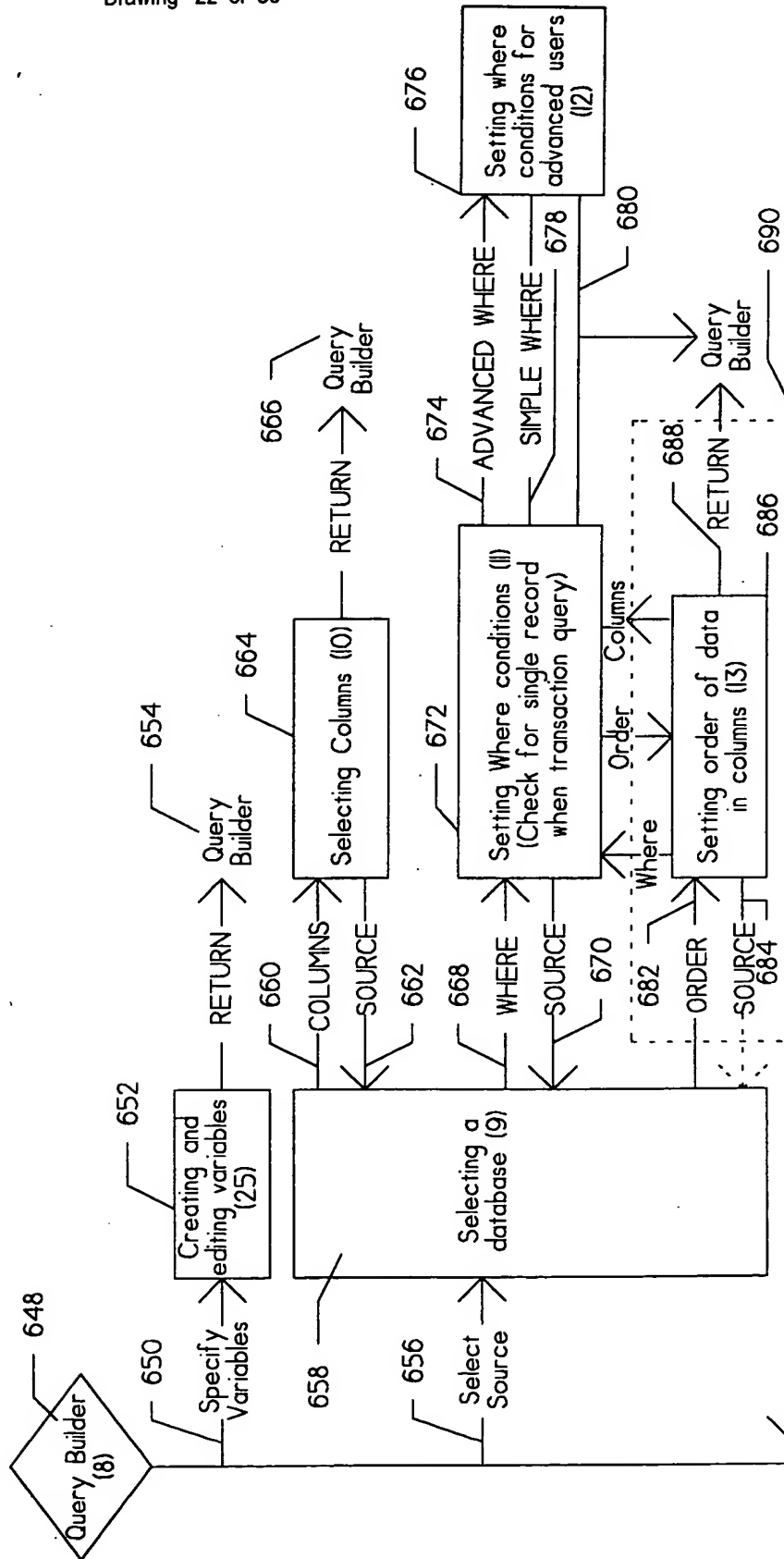


FIG. 22A

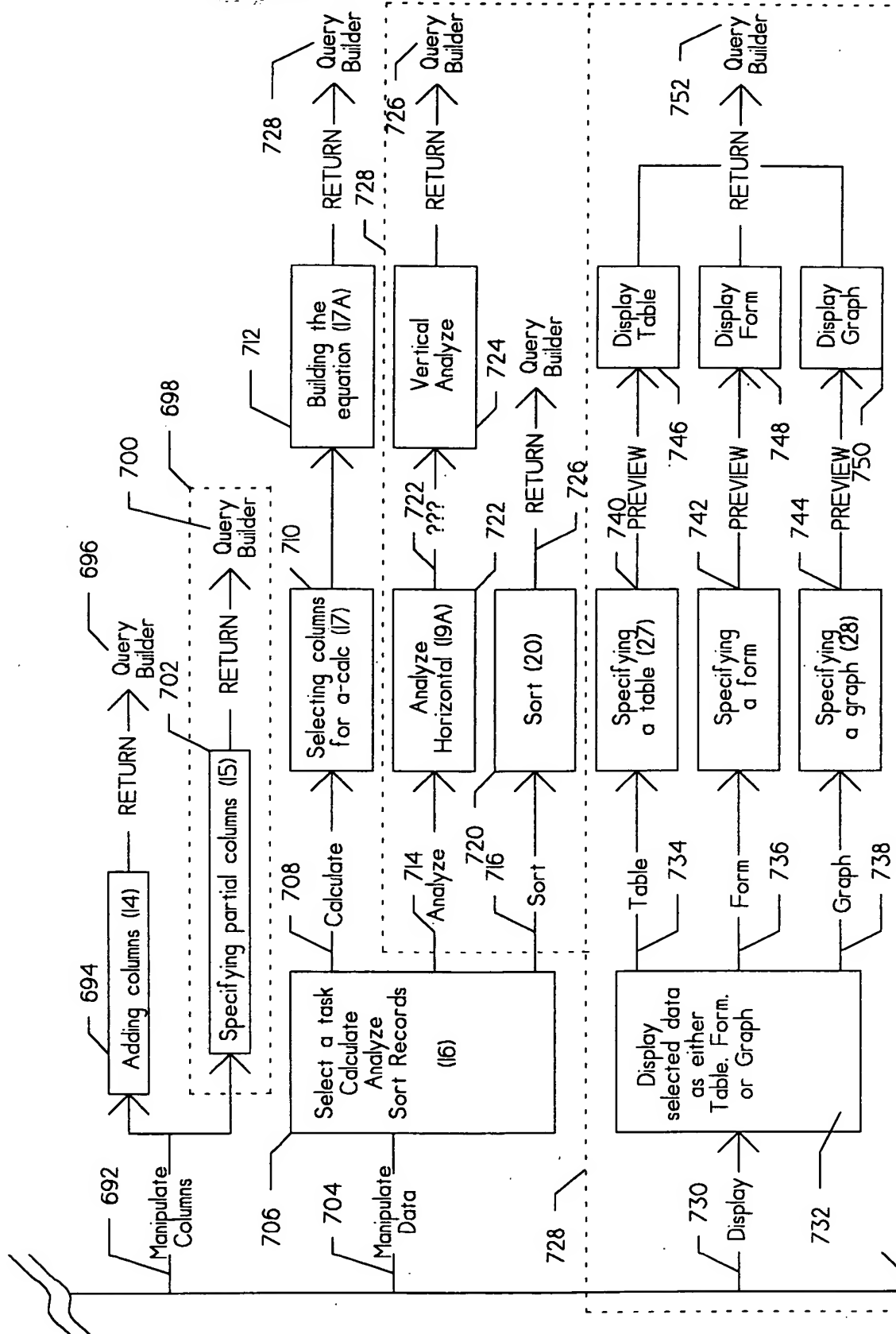


FIG. 22B

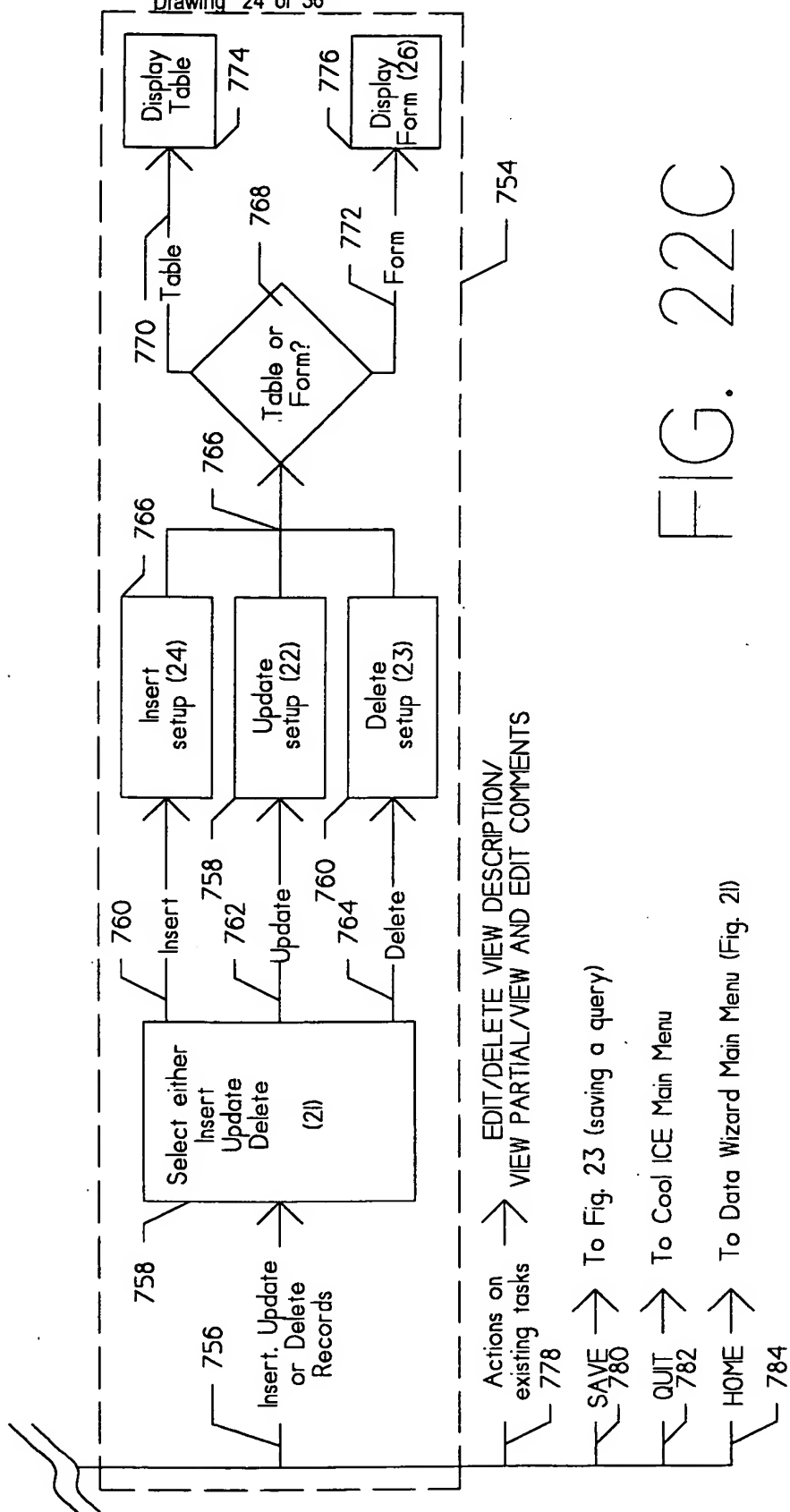


FIG. 22C

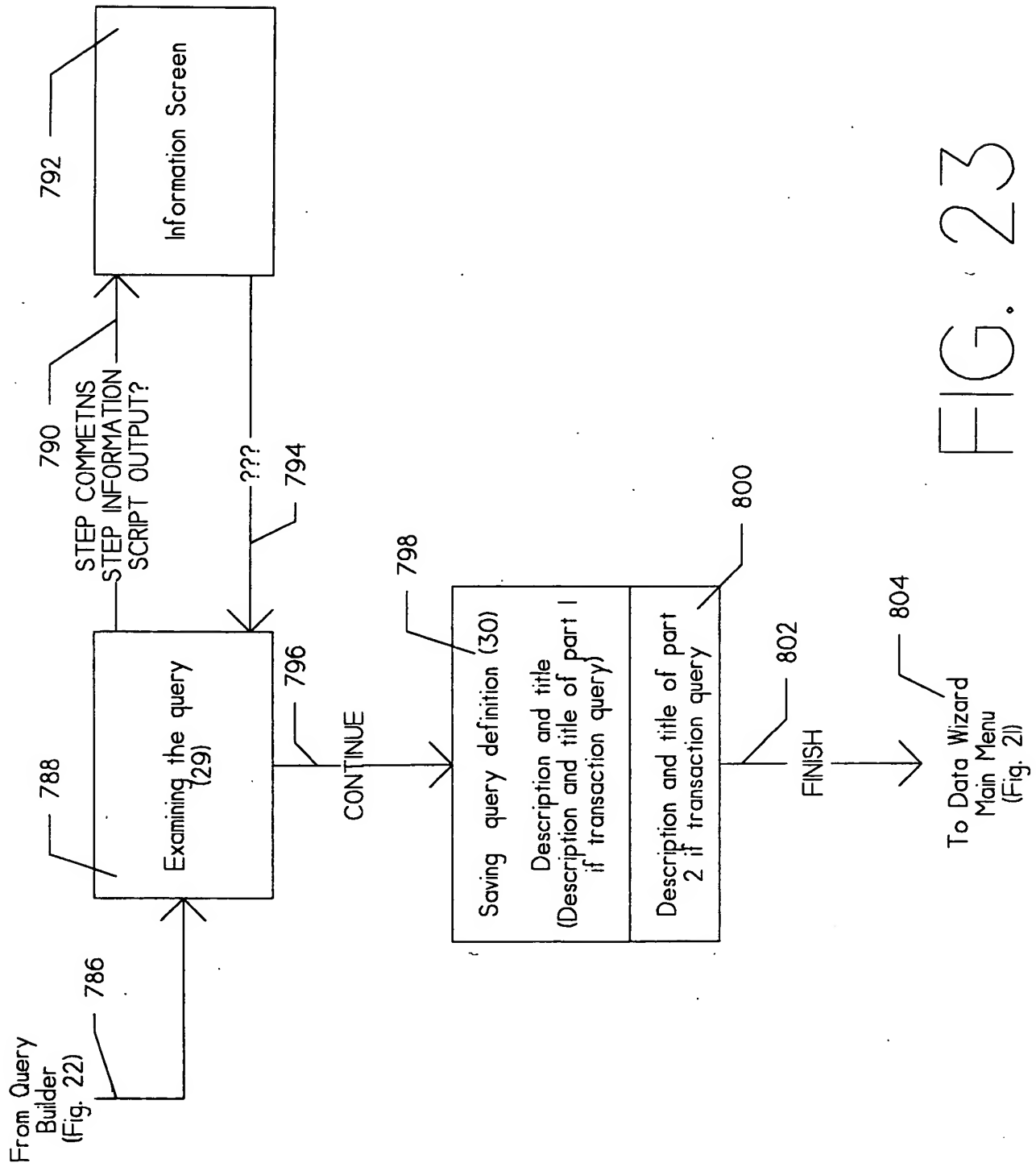


FIG. 24

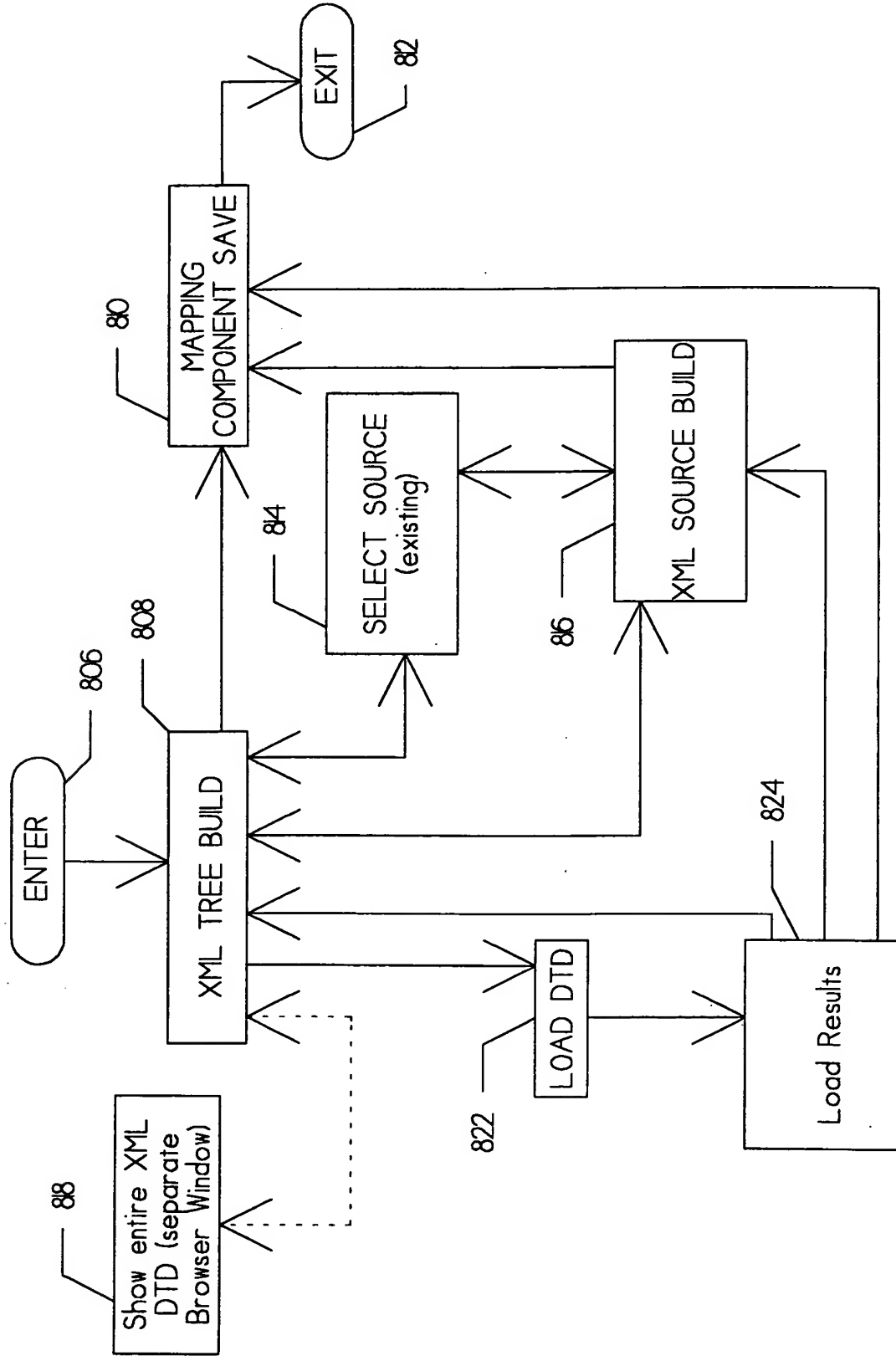


FIG. 24

25.6

838

☐ Newspaper

840

☐ Article

842

☐ Author

844

☐ Editor

846

☐ Date

848

☐ Edition

850

☐ Headline

852

☐ Byline

854

☐ Lead

☐ Body

☐ Notes

☐ Tables

☐ Article

☐ Article

☐ Author

☐ Editor

☐ Date

☐ Edition

☐ Headline

☐ Byline

☐ Lead

☐ Body

☐ Notes

☐ Mapping Type

☐ Open

☐ Table Mapping

☐ Complete

☐ Name Conversion

☐ Capital

☐ Element Properties

☐ Item Type

☐ Sequence

☐ Mapping

☐ Row Iterator

☐ Value

☐ Element Form

☐ Rpt

☐ Actions

☐ Clear Mapping

☐ Add Sibling above

☐ Add Sibling below

☐ Add Childred

☐ Add Attributes

☐ Delete Branch

☐ Compact View

☐ Show Representation

826

FIG. 26

XML -Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

UNISYS

Component Builder

Home Quit Cancel Help

871 XML MAPPING ELEMENTS

872 Redisplay

873 Sources

874 Upload DTD

875 Save

876

ELEMENTS	858	CONTROLS	Element Properties
Root	<input type="radio"/>	Mapping Type <input type="checkbox"/> Open <input checked="" type="checkbox"/> Mapped	Item Type <input type="checkbox"/> Sequence <input checked="" type="checkbox"/> Mapped
	<input type="radio"/>	Name Conversion <input type="checkbox"/> Capital <input checked="" type="checkbox"/> Mapped	Element Form <input type="checkbox"/> Rpt <input checked="" type="checkbox"/> Mapped
	<input type="radio"/>	Table Mapping <input type="checkbox"/> Complete <input checked="" type="checkbox"/> Mapped	Mapping <input type="checkbox"/> Row Iterator <input checked="" type="checkbox"/> Mapped
	<input type="radio"/>		Value <input type="checkbox"/> 862 <input checked="" type="checkbox"/> 863

870

FIG. 27

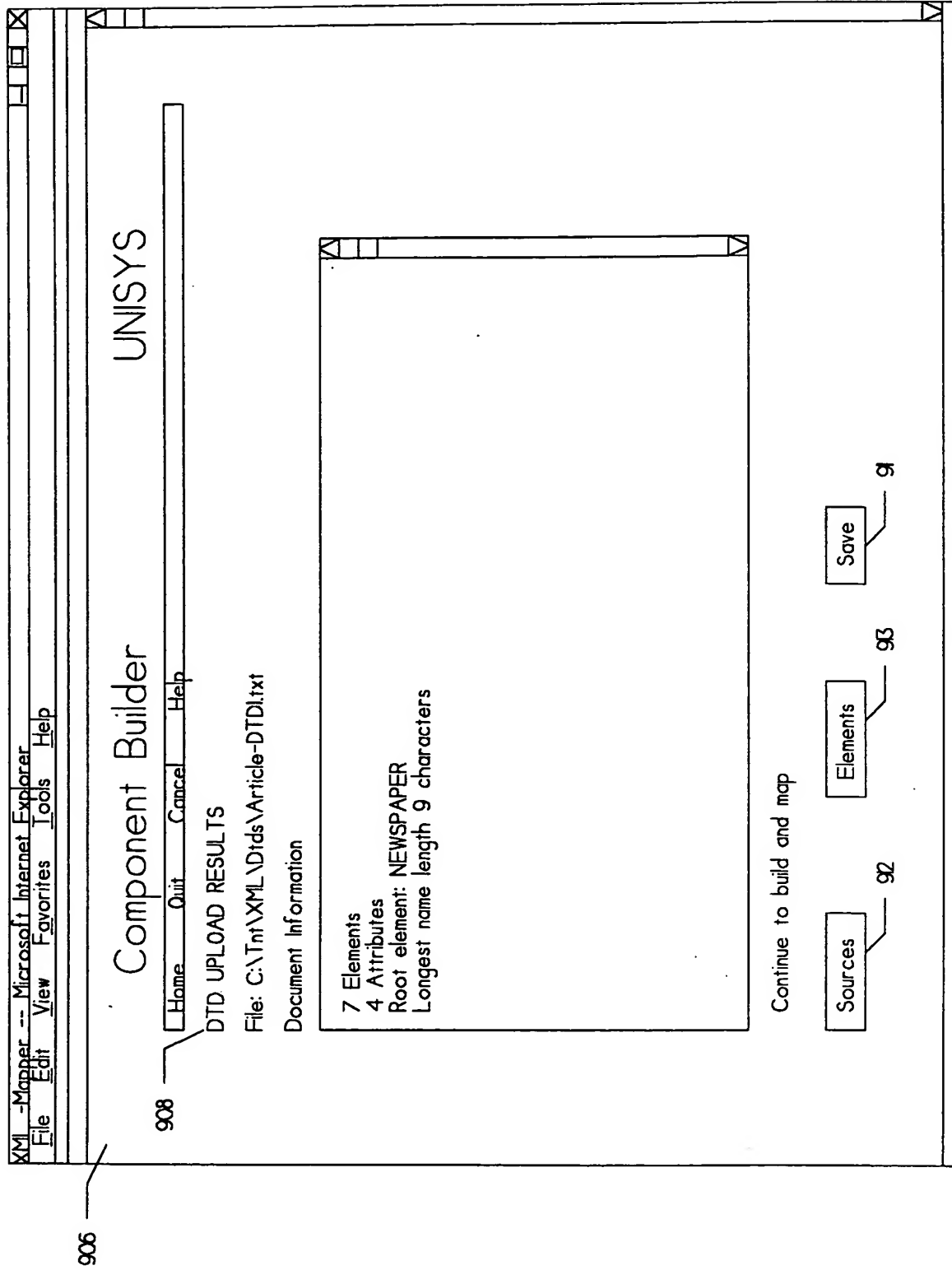


FIG. 28

IDENTIFICATION EXAMPLE

Version:AC:0.0 90
Truncation:AC:0 92
TypeCheck:AC:0 93
ShoeData:ED:0:R 94
From:DE:I:R
From:EV:Supplier:20:string
TableType:ED:I:R
TableType:EV:TableInfo:50:string
Inventory:ED:I:R
Inventory:BT:Inventory:7
Inventory:IH:ITEMNUMBER:I:0
Inventory:IH:QTY:5
Inventory:IH:TYPE:I:0
Inventory:IH:GENDER:6
Inventory:IH:SIZ:3
Inventory:IH:COLOR:3I
Inventory:IH:UNITCOST:I:3
Date:AD:I:R
Date:AV:Date:I:0:string
Time:AD:I:R
Time:AV:Time:5:string
Row:ED:2:R
Row:BR:I
ItemNr:ED:2:R
ItemNr:EF:I:ITEMNUMBER:I:0:R:string
Quantity:AD:2:R
Quantity:AF:I:QTY:5:R:string
Type:ED:2:R
Type:EF:I:TYPE:I:0:L:string:
Gender:ED:2:0
Gender:EF:I:GENDER:6:L:string:UniSex
Size:ED:2:R
Size:EF:I:SIZ:3:L:string:
Color:ED:3:0
Color:EF:I:COLOR:3I:L:string:White
Unitcost:ED:2:R
Unitcost:EF:I:UNITCOST:I:3:R:string:
Row:EE:2
Row:ER:a
Inventory:EE:I
Inventory:ET:I 96

FIG. 29

DTD EXAMPLE 98

<!DOCTYPE ShoeData [

```
<!ELEMENT ShoeData (From, TableType, Inventory)>
<!ELEMENT From (#PCDATA)>
<!ELEMENT TableType (#PCDATA)>
<!ELEMENT Inventory (Row+)>
<!ATTLIST Inventory Date CDATA #REQUIRED>
<!ATTLIST Inventory Time CDATA #REQUIRED>
<!ELEMENT Row (ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<!ELEMENT ItemNr (#PCDATA)>
<!ATTLIST ItemNr Quantity CDATA #REQUIRED>
<!ELEMENT Type (#PCDATA)>
<!ELEMENT Gender (#PCDATA)>
<!ELEMENT Size (#PCDATA)>
<!ELEMENT Color (#PCDATA)>
<!ELEMENT Unitcost (#PCDATA)>
```

FIG. 30

XML INPUT DOCUMENT EXAMPLE

920

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ShoeData>
  <From>Roseville Store</From>
  <TableType>Low Inventory Count</TableType>
  <Inventory Date>2000-12-05</Inventory Date>
  <Row>
    <ItemNr Quantity="0">32335</ItemNr>
    <Type>Tennis</Type>
    <Gender>Mens</Gender>
    <Size>6</Size>
    <Color>White/Zen Grey/New Spruce</Color>
    <Unitcost>25.00</Unitcost>
  </Row>
  <Row>
    <ItemNr Quantity="0">35410</ItemNr>
    <Type>Running</Type>
    <Gender>Womens</Gender>
    <Size>5</Size>
    <Color>White/Zen Grey/Neptune Blue</Color>
    <Unitcost>19.70</Unitcost>
  </Row>
  <Row>
    <ItemNr Quantity="0">35414</ItemNr>
    <Type>Running</Type>
    <Gender>Womens</Gender>
    <Size>6</Size>
    <Color>White/Zen Grey/Neptune Blue</Color>
    <Unitcost>19.70</Unitcost>
  </Row>
  <Row>
    <ItemNr Quantity="2">35420</ItemNr>
    <Type>Running</Type>
    <Gender>Womens</Gender>
    <Size>5</Size>
    <Color>White/Chlorine Blue/Hot Lime</Color>
    <Unitcost>19.70</Unitcost>
  </Row>
  <Row>
    <ItemNr Quantity="1">37421</ItemNr>
    <Type>Golf</Type>
    <Gender>Womens</Gender>
    <Size>8</Size>
    <Color>White/Fluorescent Pink</Color>
    <Unitcost>35.00</Unitcost>
  </Row>
</Inventory>
</ShoeData>
  <Color>White/Black-Hot Lime, Neo Teak</Color>
  <Unitcost>40.00</Unitcost>
</Row>
<Row>
  <ItemNr Quantity="0">32474</ItemNr>
  <Type>Tennis</Type>
  <Gender>Womens</Gender>
  <Size>8</Size>
  <Color>White/Light Marine-Ultramarine</Color>
  <Unitcost>25.00</Unitcost>
</Row>
<Row>
  <ItemNr Quantity="1">35310</ItemNr>
  <Type>Running</Type>
  <Gender>Mens</Gender>
  <Size>6</Size>
```

FIG. 31

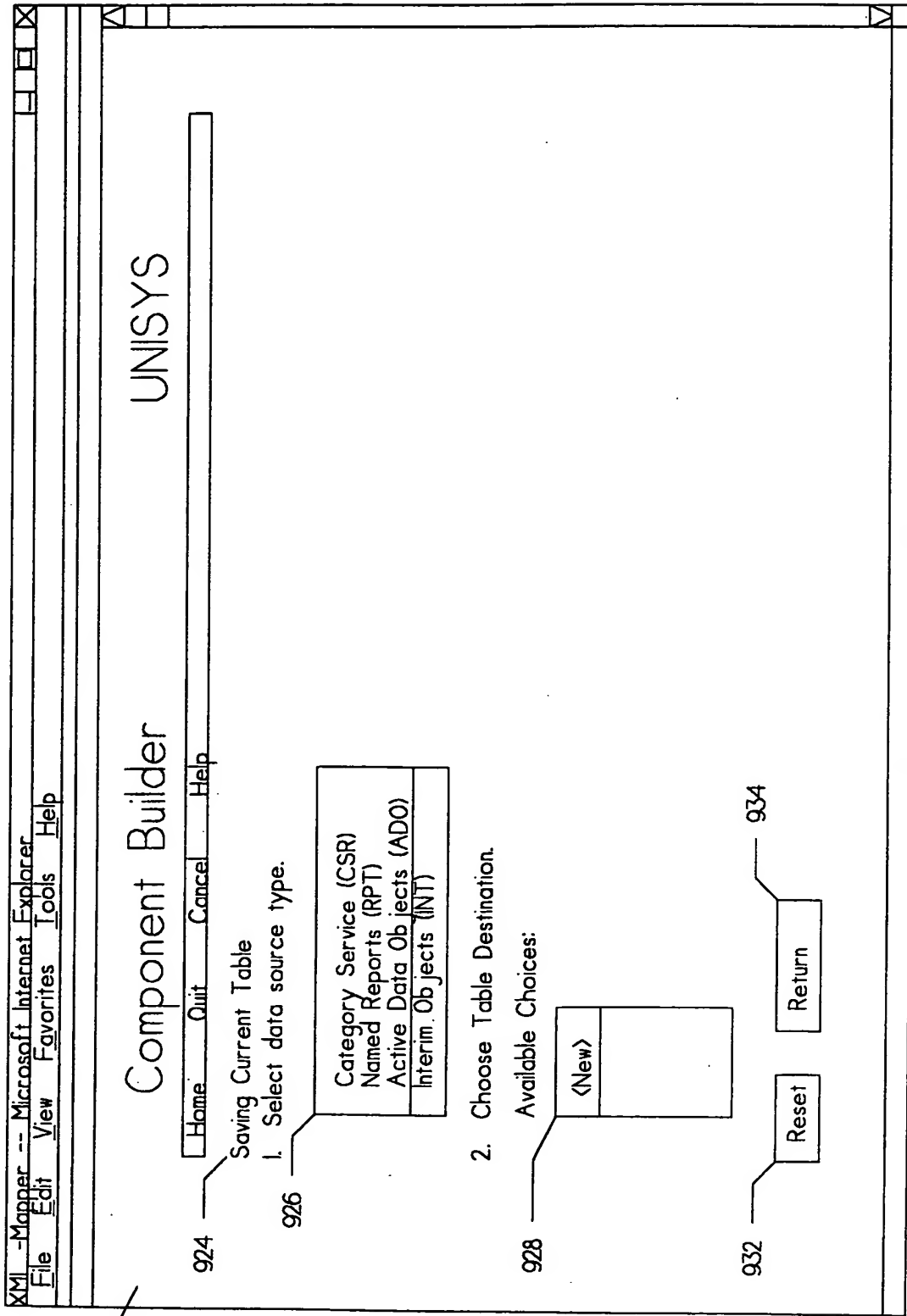


FIG. 32

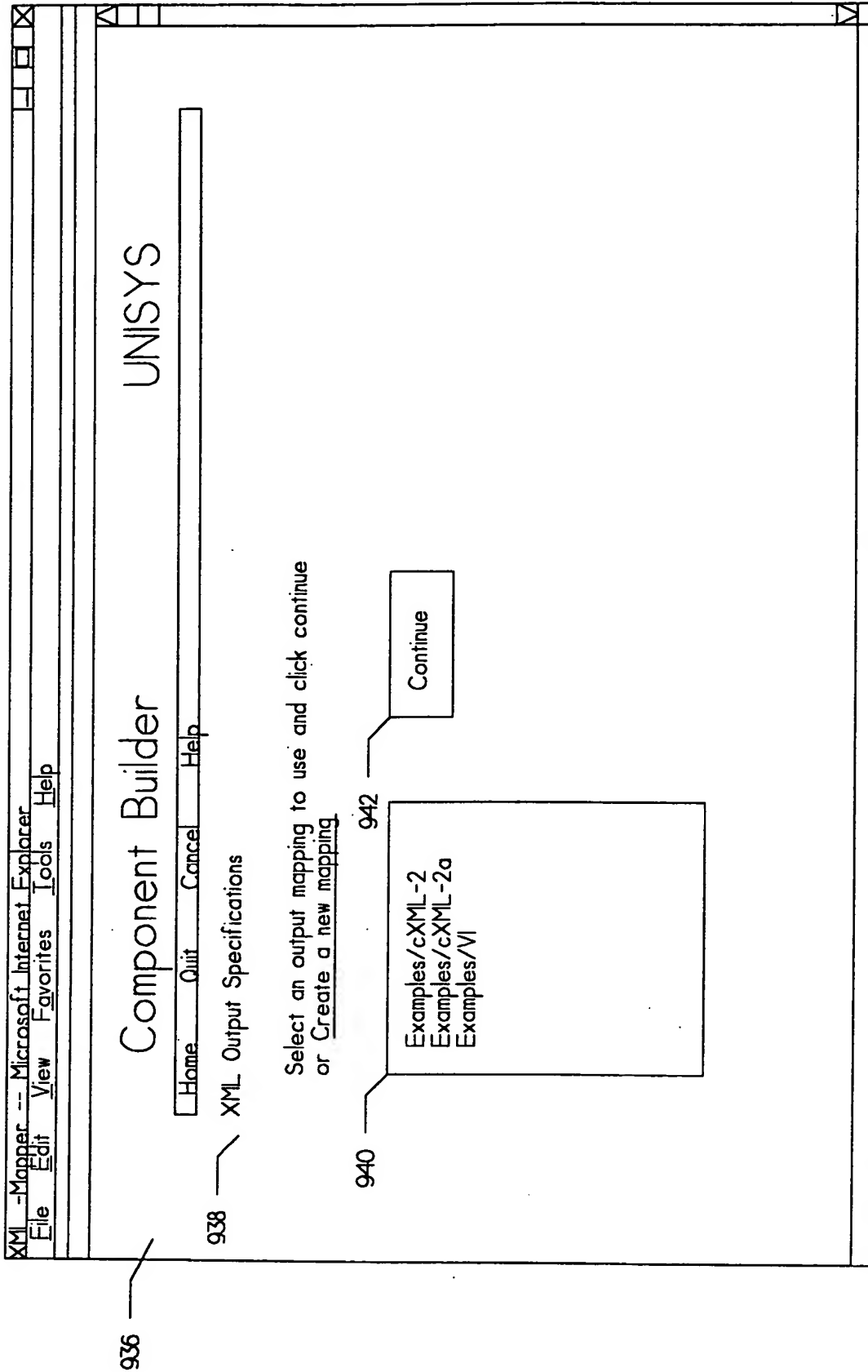


FIG. 33

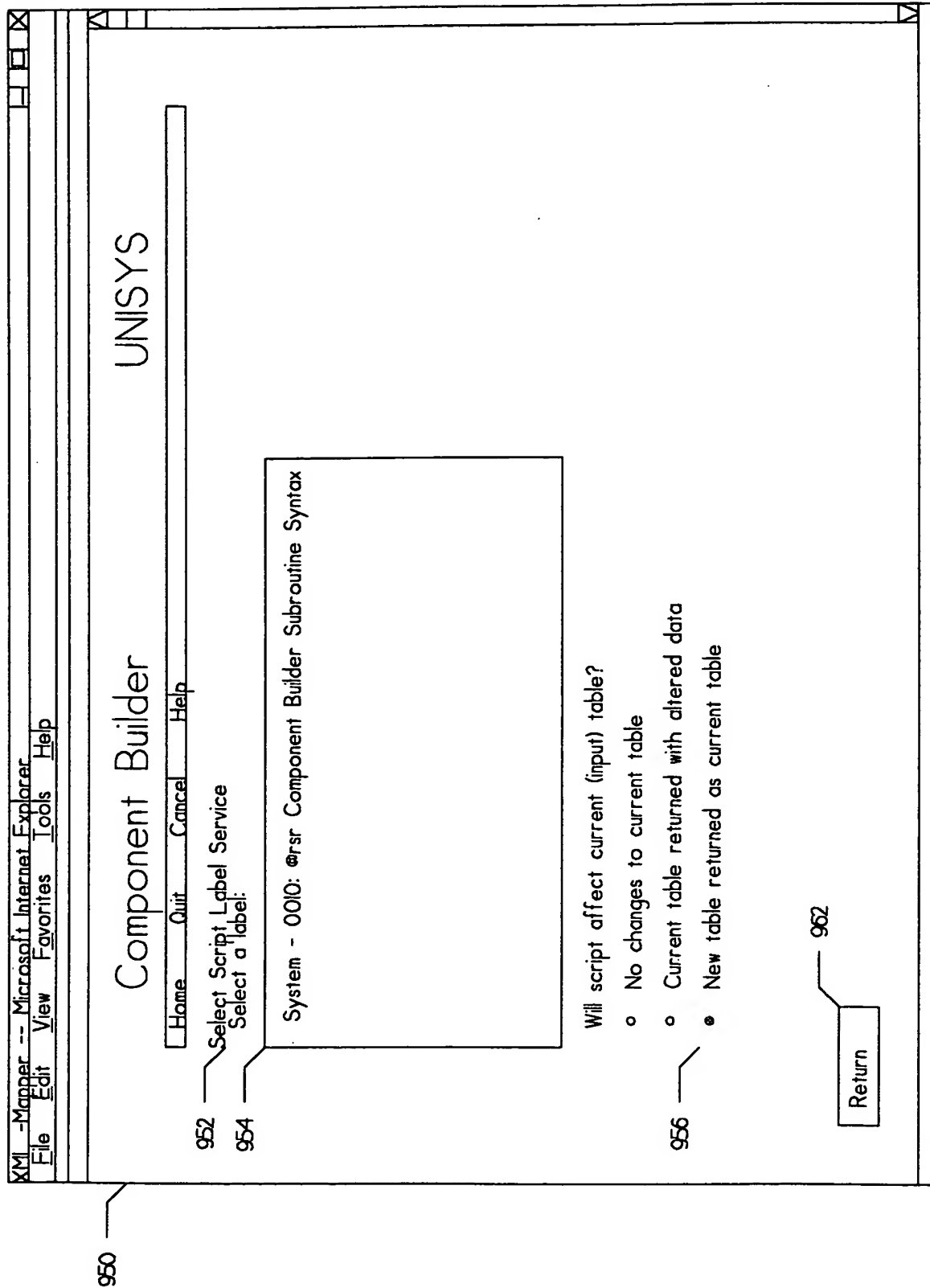


FIG. 34